

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	3	("5344132" "5530907" "5889896").PN.	USPAT	2005/01/2 1 16:22			
2	BRS	L2	2	l1 and binar\$8	USPAT	2005/01/2 1 16:22			
3	BRS	L3	0	2 and (multival\$3 or multi-value\$1)	USPAT	2005/01/2 1 16:24			
4	BRS	L4	1	2 and (color\$1 or rgb)	USPAT	2005/01/2 1 16:23			
5	BRS	L5	1903	binar\$8 same (multival\$3 or multi-value\$1)	USPAT	2005/01/2 1 16:24			
6	BRS	L6	53	5 same edit\$3	USPAT	2005/01/2 1 16:24			
7	BRS	L7	52	6 same (document or sheet or image\$1)	USPAT	2005/01/2 1 16:25			
8	BRS	L8	0	7 same (character\$1 near3 (recogn\$6 or identifi\$6))	USPAT	2005/01/2 1 16:25			
9	BRS	L9	25	5 same (character\$1 near3 (recogn\$6 or identifi\$6))	USPAT	2005/01/2 1 16:26			
10	BRS	L10	9	9 and ((output\$5 or display\$3) near5 (multi-value\$1 or multi-value\$1))	USPAT	2005/01/2 1 16:39			
11	BRS	L11	9	10 and (character\$1 near10 (recogn\$6 or identifi\$6))	USPAT	2005/01/2 1 16:38			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
12	BRS	L12	53	(rgb or (red adj green adj blue) or multivalue\$1 or multi- value\$1) same (character near4 recogn\$6)	USPAT	2005/01/2 1 16:50			
13	BRS	L13	58	(rgb or (red adj green adj blue) or multivalue\$1 or multi- value\$1) same (character\$1 near4 recogn\$6)	USPAT	2005/01/2 1 16:55			
14	BRS	L14	26	13 same binar\$8	USPAT	2005/01/2 1 16:40			
15	BRS	L15	4	14 same (edit\$3 or correct\$6 or adjust\$6 or fix\$3 or modif\$7)	USPAT	2005/01/2 1 16:48			
16	BRS	L16	3	14 and (editing or editor)	USPAT	2005/01/2 1 16:48			
17	BRS	L17	0	(rgb or (red adj green adj blue) or multivalue\$1 or multi- value\$1) same (character near4 recogn\$6) same edit\$3	USPAT	2005/01/2 1 17:09			

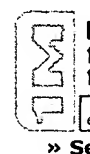
	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
18	BRS	L18	6	(creat\$3 or generat\$3) same(rgb or (red adj green adj blue) or multivaluel\$1 or multivaluel\$1) same (character near4 recogn\$6) same ((black near3 white) or binar\$8)	USPAT	2005/01/21 16:51			
19	BRS	L19	14	(rgb or (red adj green adj blue) or multivaluel\$1 or multivaluel\$1) near6 (binar\$8 or (black near1 white)) same (character\$1 near4 recogn\$6) same imag\$3	USPAT	2005/01/21 16:55			
20	BRS	L20	6	14 same (document or sheet or transcr\$5 or manuscript)	USPAT	2005/01/21 16:55			
21	BRS	L21	6	14 same (document\$1 or sheet\$1 or transcr\$5 or manuscript\$1 or paper\$1)	USPAT	2005/01/21 16:57			
22	BRS	L22	24	13 and (image\$1 near5 (sheet\$1 or document\$1))	USPAT	2005/01/21 16:57			
23	BRS	L23	23	22 and (binar\$8 or (black near2 white))	USPAT	2005/01/21 17:00			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
24	BRS	L24	1	(character\$1 near3 recogn\$6) same (display\$3 near10 (rgb or multi-value\$1 or multivalued\$1)) same image\$1	USPAT	2005/01/2 1 17:02			
25	BRS	L25	104	binar\$7 with image\$1 with (screen or display\$3) with (rgb or multi-value\$1 or multivalued\$1)	USPAT	2005/01/2 1 17:03			
26	BRS	L26	0	25 same (character\$1 near3 recogn\$6)	USPAT	2005/01/2 1 17:03			
27	BRS	L27	634	(display\$3 near10 (binar\$5 near3 image\$1))	USPAT	2005/01/2 1 17:04			
28	BRS	L28	103	27 same(display\$3 near10 (rgb or color or multivalued\$1 or multi-value\$1))	USPAT	2005/01/2 1 17:05			
29	BRS	L29	0	28 same (character\$1 near3 recogn\$6)	USPAT	2005/01/2 1 17:06			
30	BRS	L30	4	27 same (character\$1 near3 recogn\$6)	USPAT	2005/01/2 1 17:08			
31	BRS	L31	4724	(editing or editor) same (sheet\$1 or document\$1)	USPAT	2005/01/2 1 17:08			
32	BRS	L32	35	31 same (rgb or (red adj green adj blue) or multivalued\$1 or multi- value\$1)	USPAT	2005/01/2 1 17:09			

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
33	BRS	L33	7	32 same (binar\$7 or (black near3 white))	USPAT	2005/01/21 17:09			



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## 1 Automatic detection and recognition of signs from natural scenes

*Xilin Chen; Jie Yang; Jing Zhang; Waibel, A.:*

Image Processing, IEEE Transactions on , Volume: 13 , Issue: 1 , Jan. 2004  
Pages:87 - 99

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## 2 Direct extraction of topographic features for gray scale character recognition

Seong-Whan Lee; Young Joon Kim;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 17 , Issue: 7 , July 1995  
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### 3 Day markings detection in natural photo with morphological method

Long Meng; Guijin Wang; Lidong Xu; Xinggang Lin;

Information, Communications and Signal Processing, 2003 and the Fourth Pacific Rim Conference on Multimedia. Proceedings of the 2003 Joint Conference of the Fourth International Conference on , Volume: 2 , 15-18 Dec. 2003  
Pages:778 - 781 vol.2

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#### 4 Utilization of texture, contrast and color homogeneity for detecting recognizing text from video frames

*Tekinalp, S.; Alatan, A.A.;*

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*LeBourgeois, F.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(660 KB\)\]](#) IEEE CNF

### 6 Character string extraction by multi-stage relaxation

*Hase, H.; Shinokawa, T.; Yoneda, M.; Sakai, M.; Maruyama, H.;*

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### 7 Robust text detection from binarized document images

*Okun, O.; Yan, Y.; Pietikainen, M.;*

Pattern Recognition, 2002. Proceedings. 16th International Conference on , Volume: 3 , 11-15 Aug. 2002

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### 8 Character-like region verification for extracting text in scene images

*Hao Wang; Kangas, J.;*

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*Natarajan, P.; Elmieh, B.; Schwartz, R.; Makhoul, J.;*

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*Kongqiao Wang; Kangas, J.A.; Wenwen Li;*

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### 11 A class of m-ary asymmetric symbol error correcting codes constructed

**by graph coloring***Kaneko, H.; Fujiwara, E.;*

Information Theory, 2001. Proceedings. 2001 IEEE International Symposium on , 24-29 June 2001

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[\[Abstract\]](#) [\[PDF Full-Text \(104 KB\)\]](#) [IEEE CNF](#)**12 Character string extraction from a color document***Hase, H.; Shinokawa, T.; Yoneda, M.; Sakai, M.; Maruyama, H.;*

Document Analysis and Recognition, 1999. ICDAR '99. Proceedings of the Fifth International Conference on , 20-22 Sept. 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(172 KB\)\]](#) [IEEE CNF](#)**13 Information capturing camera and developmental issues***Fujisawa, H.; Sako, H.; Okada, Y.; Seong-Whan Lee;*

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Pages:205 - 208

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) [IEEE CNF](#)**14 Identification of text on colored book and journal covers***Sobottka, K.; Bunke, H.; Kronenberg, H.;*

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